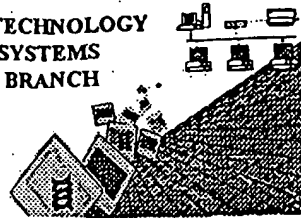


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/086,748
Source: IFW/b
Date Processed by STIC: 11/10/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

~~TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER~~
VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

~~2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450~~

3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,
Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** SERIAL NUMBER: 10/086,748

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 **Wrapped Nucleics** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 **Misaligned Amino Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 **Variable Length** Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 **PatentIn 2.0 "bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 **Skipped Sequences (OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 **Skipped Sequences (NEW RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 **Use of n's or Xaa's (NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 **Invalid <213> Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 **Use of <220>** Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 **PatentIn 2.0 "bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004
TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt
Output Set: N:\CRF4\11102004\J086748.raw

3 <110> APPLICANT: Wolber, Paul
5 <120> TITLE OF INVENTION: Calibration of Molecular Array Data
7 <130> FILE REFERENCE: 10020405-1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/086,748
C--> 9 <141> CURRENT FILING DATE: 2002-02-28
9 <160> NUMBER OF SEQ ID NOS: 29
11 <170> SOFTWARE: PatentIn version 3.3
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 20
15 <212> TYPE: DNA
16 <213> ORGANISM: artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: artificial sequence
21 <400> SEQUENCE: 1
22 aaaaaaaaaa aaaaaatctc
25 <210> SEQ ID NO: 2
26 <211> LENGTH: 21
27 <212> TYPE: DNA
28 <213> ORGANISM: artificial sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: artificial sequence
33 <400> SEQUENCE: 2
34 aaaaaaaaaa aaaaaatctc c
37 <210> SEQ ID NO: 3
38 <211> LENGTH: 22
39 <212> TYPE: DNA
40 <213> ORGANISM: artificial sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: artificial sequence
45 <400> SEQUENCE: 3
46 aaaaaaaaaa aaaaaatctc cc
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 23
51 <212> TYPE: DNA
52 <213> ORGANISM: artificial sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: artificial sequence
57 <400> SEQUENCE: 4
58 aaaaaaaaaa aaaaaatctc cca
61 <210> SEQ ID NO: 5
62 <211> LENGTH: 23
63 <212> TYPE: DNA
64 <213> ORGANISM: artificial sequence

Does Not Comply
Corrected Diskette Needed

delete
insufficient explanation - give source of genetic material (see item 11 on Error summary sheet)
same error

21

22

23

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

66 <220> FEATURE:
67 <223> OTHER INFORMATION: artificial sequence
69 <400> SEQUENCE: 5
70 aaaaaaaaaa aaaaaaatc tcc 23
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 24
75 <212> TYPE: DNA
76 <213> ORGANISM: artificial sequence;
78 <220> FEATURE:
79 <223> OTHER INFORMATION: artificial sequence
81 <400> SEQUENCE: 6
82 aaaaaaaaaa aaaaaatctc ccaa 24
85 <210> SEQ ID NO: 7
86 <211> LENGTH: 24
87 <212> TYPE: DNA
88 <213> ORGANISM: artificial sequence;
90 <220> FEATURE:
91 <223> OTHER INFORMATION: artificial sequence
93 <400> SEQUENCE: 7
94 aaaaaaaaaa aaaaaaatc tccc 24
97 <210> SEQ ID NO: 8
98 <211> LENGTH: 25
99 <212> TYPE: DNA
100 <213> ORGANISM: artificial sequence;
102 <220> FEATURE:
103 <223> OTHER INFORMATION: artificial sequence
105 <400> SEQUENCE: 8
106 aaaaaaaaaa aaaaaatctc ccaa 25
109 <210> SEQ ID NO: 9
110 <211> LENGTH: 25
111 <212> TYPE: DNA
112 <213> ORGANISM: artificial sequence;
114 <220> FEATURE:
115 <223> OTHER INFORMATION: artificial sequence
117 <400> SEQUENCE: 9
118 aaaaaaaaaa aaaaaaatc tcca 25
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 26
123 <212> TYPE: DNA
124 <213> ORGANISM: artificial sequence;
126 <220> FEATURE:
127 <223> OTHER INFORMATION: artificial sequence
129 <400> SEQUENCE: 10
130 aaaaaaaaaa aaaaaatctc ccaa 26
133 <210> SEQ ID NO: 11
134 <211> LENGTH: 26
135 <212> TYPE: DNA
136 <213> ORGANISM: artificial sequence;
138 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

```

139 <223> OTHER INFORMATION: artificial sequence
141 <400> SEQUENCE: 11
142 aaaaaaaaaa aaaaaaatc tcccaa 26
145 <210> SEQ ID NO: 12
146 <211> LENGTH: 27
147 <212> TYPE: DNA
148 <213> ORGANISM: artificial sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: artificial sequence
153 <400> SEQUENCE: 12
154 aaaaaaaaaa aaaaaaatc tcccaa 27
157 <210> SEQ ID NO: 13
158 <211> LENGTH: 27
159 <212> TYPE: DNA
160 <213> ORGANISM: artificial sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: artificial sequence
165 <400> SEQUENCE: 13
166 aaaaaaaaaa aaaaaatctc ccaaaaa 27
169 <210> SEQ ID NO: 14
170 <211> LENGTH: 28
171 <212> TYPE: DNA
172 <213> ORGANISM: artificial sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: artificial sequence
177 <400> SEQUENCE: 14
178 aaaaaaaaaa aaaaaaatc tccaaaa 28
181 <210> SEQ ID NO: 15
182 <211> LENGTH: 28
183 <212> TYPE: DNA
184 <213> ORGANISM: artificial sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: artificial sequence
189 <400> SEQUENCE: 15
190 aaaaaaaaaa aaaaaaatc tccaaaa 28
193 <210> SEQ ID NO: 16
194 <211> LENGTH: 28
195 <212> TYPE: DNA
196 <213> ORGANISM: artificial sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: artificial sequence
201 <400> SEQUENCE: 16
202 aaaaaaaaaa aaaaaatctc ccaaaaa 28
205 <210> SEQ ID NO: 17
206 <211> LENGTH: 29
207 <212> TYPE: DNA
208 <213> ORGANISM: artificial sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: artificial sequence

```

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

213 <400> SEQUENCE: 17
 214 aaaaaaaaaa aaaaaaatc tccccaaaaa 29
 217 <210> SEQ ID NO: 18
 218 <211> LENGTH: 29
 219 <212> TYPE: DNA
 220 <213> ORGANISM: artificial sequence
 222 <220> FEATURE:
 223 <223> OTHER INFORMATION: artificial sequence
 225 <400> SEQUENCE: 18
 226 aaaaaaaaaa aaaaaatctc ccaaaaaaa 29
 229 <210> SEQ ID NO: 19
 230 <211> LENGTH: 30
 231 <212> TYPE: DNA
 232 <213> ORGANISM: artificial sequence
 234 <220> FEATURE:
 235 <223> OTHER INFORMATION: artificial sequence
 237 <400> SEQUENCE: 19
 238 aaaaaaaaaa aaaaaaatc tccccaaaaa 30
 241 <210> SEQ ID NO: 20
 242 <211> LENGTH: 30
 243 <212> TYPE: DNA
 244 <213> ORGANISM: artificial sequence
 246 <220> FEATURE:
 247 <223> OTHER INFORMATION: artificial sequence
 249 <400> SEQUENCE: 20
 250 aaaaaaaaaa aaaaaatctc ccaaaaaaa 30
 253 <210> SEQ ID NO: 21
 254 <211> LENGTH: 31
 255 <212> TYPE: DNA
 C--> 256 <213> ORGANISM: artificial sequence;
 W--> 258 <220> FEATURE:
 W--> 258 <223> OTHER INFORMATION:
 W--> 258 <400> 21
 259 aaaaaaaaaa aaaaaaatc tccccaaaaa a 31
 262 <210> SEQ ID NO: 22
 263 <211> LENGTH: 31
 264 <212> TYPE: DNA
 265 <213> ORGANISM: artificial sequence
 267 <220> FEATURE:
 268 <223> OTHER INFORMATION: artificial sequence
 270 <400> SEQUENCE: 22
 271 aaaaaaaaaa aaaaaatctc ccaaaaaaa a 31
 274 <210> SEQ ID NO: 23
 275 <211> LENGTH: 32
 276 <212> TYPE: DNA
 277 <213> ORGANISM: artificial sequence
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: artificial sequence
 282 <400> SEQUENCE: 23

Artificial Sequence

mandatory numeric identifier
 needed. see p. 6

RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

```

283 aaaaaaaaaa aaaaaaaatc tccccaaaaa aa 32
286 <210> SEQ ID NO: 24
287 <211> LENGTH: 32
288 <212> TYPE: DNA
289 <213> ORGANISM: artificial sequence;
291 <220> FEATURE:
292 <223> OTHER INFORMATION: artificial sequence
294 <400> SEQUENCE: 24
295 aaaaaaaaaa aaaaaaatctc ccaaaaaaaa aa 32
298 <210> SEQ ID NO: 25
299 <211> LENGTH: 33
300 <212> TYPE: DNA
301 <213> ORGANISM: artificial sequence;
303 <220> FEATURE:
304 <223> OTHER INFORMATION: artificial sequence
306 <400> SEQUENCE: 25
307 aaaaaaaaaa aaaaaaaatc tccccaaaaa aaa 33
310 <210> SEQ ID NO: 26
311 <211> LENGTH: 33
312 <212> TYPE: DNA
313 <213> ORGANISM: artificial sequence;
315 <220> FEATURE:
316 <223> OTHER INFORMATION: artificial sequence
318 <400> SEQUENCE: 26
319 aaaaaaaaaa aaaaaaatctc ccaaaaaaaa aaa 33
322 <210> SEQ ID NO: 27
323 <211> LENGTH: 34
324 <212> TYPE: DNA
325 <213> ORGANISM: artificial sequence;
327 <220> FEATURE:
328 <223> OTHER INFORMATION: artificial sequence
330 <400> SEQUENCE: 27
331 aaaaaaaaaa aaaaaaaatc tccccaaaaa aaaa 34
334 <210> SEQ ID NO: 28
335 <211> LENGTH: 35
336 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence;
339 <220> FEATURE:
340 <223> OTHER INFORMATION: artificial sequence
342 <400> SEQUENCE: 28
343 aaaaaaaaaa aaaaaaaatc tccccaaaaa aaaaa 35
346 <210> SEQ ID NO: 29
347 <211> LENGTH: 60
348 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence;
351 <220> FEATURE:
352 <223> OTHER INFORMATION: artificial sequence
354 <400> SEQUENCE: 29
355 ttgattcttt tttataaac tactctttga tttaaaaaa aaaaaaaaaa aaaaaaaaaa 60

```

10/086,748 6

<210> SEQ ID NO 21

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 21

aaaaaaaaa aaaaaaaatc tcccaaaaaa a

see p. 7 for explanation

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004
TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt
Output Set: N:\CRF4\11102004\J086748.raw

no explanation

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:256 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:258 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>
ORGANISM:Artificial Sequence
L:258 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>
ORGANISM:Artificial Sequence
L:258 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:258